

# INTERNATIONAL SEARCH REPORT

Application No

PCT/NL2004/000748

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A23L1/29 A23L1/30 A61K31/733 A61K31/702 A61K35/74  
A61P37/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23L A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, FSTA, PAJ, BIOSIS, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 904 784 A (NUTRICIA NV) 31 March 1999 (1999-03-31) paragraphs [0022], [0023], [0039] - [0042], [0045], [0052], [0058] - [0064]; claims 1-6; examples 1-5,7	1-18
Y	DE 198 36 339 A (NUTRICIA NV) 24 February 2000 (2000-02-24) the whole document	1-18
Y	EP 1 175 905 A (NESTLE SA) 30 January 2002 (2002-01-30) paragraphs [0022] - [0025], [0029], [0030]; claims; examples	1-18
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the International filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the International filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the International search report

10. 06. 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Barnas, C

# INTERNATIONAL SEARCH REPORT

Application No  
PCT/NL2004/000748

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 102 06 995 A (ORTHOMOL PHARMAZEUTISCHE VERTR) 4 September 2003 (2003-09-04) page 2, paragraphs 1,8-17,33-38; claims 1-4,11-17	1-18
Y	DE 100 08 279 A (MEGGLE GMBH) 30 August 2001 (2001-08-30) column 2, line 34 - column 5, line 25; claims; example 1	1-18
Y	EP 0 856 259 A (SITIA YOMO SPA) 5 August 1998 (1998-08-05) column 2, line 27 - column 7, line 23; claims 1-11; example 2	1-18
Y	US 2003/031659 A1 (FARMER SEAN) 13 February 2003 (2003-02-13) paragraph [0096] - paragraph [0101]; claims 1,5,10.,18,19,102,106,112-116	1-18
Y	US 2002/015990 A1 (NAKAMURA HIROHIKO ET AL) 7 February 2002 (2002-02-07) paragraphs [0046] - [0076]; claims; examples 2-5	1-18
Y	WO 03/013559 A (HOKKAIDO TECHNOLOGY LICENSING ; HUKUMORI YASUNORI (JP); NIPPON BEET SU) 20 February 2003 (2003-02-20) the whole document & EP 1 421 945 A (HOKKAIDO TECHNOLOGY LICENSING ; NIPPON BEET SUGAR MFG (JP); HOKUREN (J) 26 May 2004 (2004-05-26) paragraphs [0013], [0014], [0021] - [0030]; claims; example 8	1-18
Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02, 26 February 1999 (1999-02-26) & JP 10 309178 A (WAKAMOTO PHARMACEUT CO LTD), 24 November 1998 (1998-11-24) abstract	1-18
Y	FAMULARO G ET AL: "TRADITIONAL AND HIGH POTENCY PROBIOTIC PREPARATIONS FOR ORAL BACTERIOTHERAPY" BIODRUGS, AUCKLAND, NZ, vol. 12, no. 6, 1999, pages 455-470, XP009001219 ISSN: 1173-8804 page 459, column 1, paragraph 3 - column 2, paragraph 1 page 468, column 1, paragraph 2 - paragraph 3	1-18
	-/--	

## INTERNATIONAL SEARCH REPORT

 Application No  
 PCT/NL2004/000748

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>MORO G ET AL: "Dosage-Related Bifidogenic Effects of Galacto- and Fructooligosaccharides in Formula-Fed Term Infants"</p> <p>JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION, RAVEN PRESS, NEW YORK, NY, US, vol. 34, no. 3, March 2002 (2002-03), pages 291-295, XP008029577</p> <p>ISSN: 0277-2116</p> <p>cited in the application</p> <p>page 291</p> <p>page 292</p> <p>page 295</p>	1-18
Y	<p>-----</p> <p>MORISHITA Y ET AL:</p> <p>"Galactooligosaccharide in combination with Bifidobacterium and Bacteroides affects the population of Clostridium perfringens in the intestine of gnotobiotic mice."</p> <p>NUTRITION RESEARCH, vol. 22, no. 11, November 2002 (2002-11), pages 1333-1341, XP002295913</p> <p>ISSN: 0271-5317</p> <p>page 1338, paragraph 2</p>	1-18
Y	<p>-----</p> <p>ISOLAURI E ET AL: "PROBIOTICS IN THE MANAGEMENT OF ATOPIC ECZEMA"</p> <p>CLINICAL AND EXPERIMENTAL ALLERGY, BLACKWELL SCIENTIFIC PUBLICATIONS, LONDON, GB, vol. 30, November 2000 (2000-11), pages 1604-1610, XP001064231</p> <p>ISSN: 0954-7894</p> <p>page 1608</p>	1-18
Y	<p>-----</p> <p>ISOLAURI E ET AL: "PROBIOTICS: EFFECTS ON IMMUNITY"</p> <p>AMERICAN JOURNAL OF CLINICAL NUTRITION, BETHESDA, MD, US, vol. 73, no. SUPPL, February 2001 (2001-02), pages 444S-450S, XP000984966</p> <p>ISSN: 0002-9165</p> <p>page 448S, paragraph 2</p> <p>-----</p> <p style="text-align: center;">-/--</p>	1-18

## INTERNATIONAL SEARCH REPORT

Application No

PCT/NL2004/000748

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>KANAMORI YUTAKA ET AL: "Combination therapy with Bifidobacterium breve, Lactobacillus casei, and galactooligosaccharides dramatically improved the intestinal function in a girl with short bowel syndrome: A novel synbiotics therapy for intestinal failure" DIGESTIVE DISEASES AND SCIENCES, vol. 46, no. 9, September 2001 (2001-09), pages 2010-2016, XP009036227 ISSN: 0163-2116 page 2011 page 2015; table 1</p> <p>-----</p>	1-18
A	<p>LAMOUREUX L ET AL: "PRODUCTION OF OLIGOSACCHARIDES IN YOGHURT CONTAINING BIFIDOBACTERIA AND YOGURT CULTURES" JOURNAL OF DAIRY SCIENCE, AMERICAN DAIRY SCIENCE ASSOCIATION. CHAMPAIGN, ILLINOIS, US, vol. 85, no. 5, May 2002 (2002-05), pages 1058-1069, XP001124200 ISSN: 0022-0302 page 1068, column 1, paragraph 2 - column 2</p> <p>-----</p>	

## INTERNATIONAL SEARCH REPORT

 Application No  
 PCT/NL2004/000748

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0904784	A	31-03-1999	EP 0904784 A1	31-03-1999
DE 19836339	A	24-02-2000	DE 19836339 A1	24-02-2000
			AT 220511 T	15-08-2002
			AU 766429 B2	16-10-2003
			AU 5514699 A	06-03-2000
			BR 9912959 A	08-05-2001
			CA 2340103 A1	24-02-2000
			CN 1105506 C	16-04-2003
			DE 59902059 D1	22-08-2002
			DK 1105002 T3	11-11-2002
			WO 0008948 A2	24-02-2000
			EP 1105002 A2	13-06-2001
			ES 2180321 T3	01-02-2003
			ID 29945 A	25-10-2001
			JP 2002522461 T	23-07-2002
			NZ 510347 A	25-07-2003
			PL 346642 A1	25-02-2002
			PT 1105002 T	31-12-2002
EP 1175905	A	30-01-2002	EP 1175905 A1	30-01-2002
			AU 8968001 A	05-02-2002
			BG 107473 A	30-07-2004
			BR 0112685 A	24-06-2003
			CA 2416990 A1	31-01-2002
			CN 1466459 A	07-01-2004
			CZ 20030535 A3	17-09-2003
			WO 0207533 A2	31-01-2002
			EP 1305036 A2	02-05-2003
			HU 0303728 A2	29-03-2004
			JP 2004504332 T	12-02-2004
			MX PA03000742 A	25-09-2003
			NO 20030316 A	14-03-2003
			PL 366049 A1	24-01-2005
			US 2003166610 A1	04-09-2003
			US 2005053641 A1	10-03-2005
			ZA 200301401 A	21-05-2004
DE 10206995	A	04-09-2003	DE 10206995 A1	04-09-2003
DE 10008279	A	30-08-2001	DE 10008279 A1	30-08-2001
EP 0856259	A	05-08-1998	EP 0856259 A1	05-08-1998
			AT 169456 T	15-08-1998
			BR 9706278 A	01-06-1999
			CA 2213113 A1	23-06-1998
			CN 1185904 A	01-07-1998
			DE 69600525 D1	15-10-1998
			DE 69600525 T2	10-12-1998
			JP 10286078 A	27-10-1998
			US 5895648 A	20-04-1999
US 2003031659	A1	13-02-2003	US 6461607 B1	08-10-2002
			AU 772332 B2	22-04-2004
			AU 5341599 A	14-03-2000
			CA 2341503 A1	02-03-2000
			EP 1107772 A2	20-06-2001
			JP 2002523372 T	30-07-2002

# INTERNATIONAL SEARCH REPORT

Application No  
PCT/NL2004/000748

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003031659 A1		WO 0010582 A2	02-03-2000
US 2002015990 A1	07-02-2002	JP 10175867 A	30-06-1998
		CN 1239998 A ,C	29-12-1999
		HK 1023367 A1	07-01-2005
		WO 9826043 A1	18-06-1998
		KR 2000057520 A	25-09-2000
WO 03013559 A	20-02-2003	EP 1421945 A1	26-05-2004
		WO 03013559 A1	20-02-2003
		US 2004208859 A1	21-10-2004
EP 1421945 A	26-05-2004	EP 1421945 A1	26-05-2004
		US 2004208859 A1	21-10-2004
		WO 03013559 A1	20-02-2003
JP 10309178 A	24-11-1998	NONE	